Application No.: 10/823,461

Office Action Dated: April 17, 2008

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A system for binding target and source comprising:

a computer that stores a plurality of binding statements <u>used to determine content to</u> <u>be displayed in a user interface during execution of user interface software by the computer, the plurality of binding statements</u> specified by declarative statements, the plurality of binding statements comprising at least a first binding statement and a second binding statement;

a binding engine executing on the computer, the binding engine establishing a priority order in which the plurality of binding statements are to be executed by the computer in order to bind the target to the source, the execution priority order being established using a priority indicator or marker associated with each of the plurality of binding statements, the binding engine evaluating the plurality of binding statements to determine content to be displayed in a user interface during execution of the user interface software by the computer,

whereby executing the binding statements according to the priority order enables efficient generation of the user interface.

- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Original) The system of claim 2, wherein the first binding statement is associated with a first priority and the second binding statement is associated with a second priority.
- 5. (Original) The system of claim 4, wherein in response to determining that the first priority is higher than the second priority, the first binding statement is evaluated.
- 6. (Original) The system of claim 5, wherein in response to determining that the first binding statement evaluates successfully, the first binding statement is executed.

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7. (Original) The system of claim 4, wherein the execution priority comprises:

in response to determining that the first priority is a highest priority and the second

priority is a next highest priority and the first binding statement does not evaluate

successfully and the second binding statement evaluates successfully, executing the second

binding statement.

8. (Original) The system of claim 1, wherein the first binding statement comprises a

data source.

9. (Original) The system of claim 8, wherein the data source comprises an object

accessed via a URI.

10. (Original) The system of claim 8, wherein the data source comprises an XML

source.

11. (Original) The system of claim 8, wherein the data source comprises an object

model.

12. (Original) The system of claim 8, wherein the data source comprises a database

accessed by a database query language.

13. (Original) The system of claim 1, wherein the first binding statement comprises a

binding path.

14. (Original) The system of claim 13, wherein the binding path is expressed as an

XML XPath.

15. (Original) The system of claim 13, wherein the binding path comprises an object

path.

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16. (Original) The system of claim 1, wherein the first binding statement comprises an expression.

17. (Original) The system of claim 16, wherein determining that the first binding statement evaluates successfully comprises determining that the expression evaluates to true.

- 18. (Original) The system of claim 1, wherein the second binding statement comprises a default value and the default value is used to update a target when only the second binding statement evaluates successfully.
- 19. (Currently Amended) A method implemented by a computer for binding a target to at least two of a plurality of data elements comprising:

storing a plurality of binding statements specified by declarative statements provided during program development of user interface software, comprising at least a first binding statement and a second binding statement, wherein a binding engine evaluates the plurality of binding statements to determine content to be displayed in a user interface during execution of the user interface software by the computer;

receiving a priority order indicating an order of execution of the plurality of binding statements, the first binding statement associated with a highest priority and the second binding statement associated with a next highest priority, the priority order being established using a priority indicator associated with each of the plurality of binding statements;

evaluating the higher priority first binding statement;

executing the first binding statement if the evaluation is successful; and automatically evaluating the second binding statement if the first binding statement fails the evaluation;

wherein the evaluation of the first and second binding statements is performed by the binding engine; and

displaying a fallback value in the user interface if both the first and second binding statements fail to evaluate successfully,

whereby executing the binding statements according to the priority order enables efficient generation of the user interface.

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20. (Cancelled)

21. (Cancelled)

22. (Original) The method of claim 19, wherein executing the first binding statement

comprises updating a target with a data element identified by the first binding statement.

23. (Previously presented) The method of claim 19, wherein in response to

determining that the first binding statement does not evaluate successfully, automatically

evaluating the second binding statement.

24. (Original) The method of claim 23, wherein in response to successfully

evaluating the second binding statement, executing the second binding statement.

25. (Original) The method of claim 19, wherein the plurality of binding statements is

defined via a markup language.

26. (Original) The method of claim 25, wherein the markup language is HTML,

XML or XAML.

27. (Original) The method of claim 19, wherein the first binding statement comprises

an expression value.

28. (Original) The method of claim 27, wherein the first binding statement is

executed in response to determining that the first binding statement evaluates successfully

and the first binding statement expression evaluates to true.

29. (Original) The method of claim 23, wherein the second binding statement

comprises a default value and the default value is used to update a target.

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30. (Original) The method of claim 19, wherein the target is an element of a user interface.

31. (Original) The method of claim 19, further comprising monitoring a plurality of data binding paths associated with the plurality of binding statements for a change notification.

- 32. (Original) The method of claim 31, further comprising re-evaluating the plurality of binding statements in response to receiving the change notification.
- 33. (Currently Amended) A computer-readable storage device comprising computer-executable instructions for:

mapping a target to at least a first data element and a second data element of a plurality of data elements of a source using a collection of binding statements <u>used to determine content to be displayed in a user interface during execution of user interface software by a computer, the plurality of binding statements in a declarative markup language, wherein the collection of binding statements are provided during program development of a user interface:</u>

evaluating the collection of binding statements with a priority data binding engine for binding the target using a priority protocol to determine which one of the binding statements to use to determine content to be displayed in the user interface during execution of the user interface by a computer; and

displaying a fallback value in the user interface if the collection of binding statements fail to evaluate successfully.

whereby executing the binding statements according to the priority order enables efficient generation of the user interface.

34. (Original) The computer-readable medium of claim 33, further comprising computer-executable instructions for indicating an execution order for the collection of binding statements.

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35. (Original) The computer-readable medium of claim 34, further comprising computer-executable instructions for specifying that the collection of binding statements comprises a first binding statement associated with the first data element and a first execution order indicating a highest priority and a second binding statement associated with the second data element and a second execution order indicating a second highest priority.

- 36. (Original) The computer-readable medium of claim 35, further comprising: computer-executable instructions for evaluating the first binding statement and in response to determining that the first binding statement evaluates successfully, executing the first binding statement.
- 37. (Original) The computer-readable medium of claim 36, further comprising computer-executable instructions for updating the target with a value of the first data element.
- 38. (Original) The computer-readable medium of claim 35, further comprising computer-executable instructions for monitoring the first data element and the second data element for a change notification and in response to detecting the change notification, reevaluating the collection of binding statements.
- 39. (Original) The computer-readable medium of claim 35, further comprising computer-executable instructions for determining that the first binding statement does not evaluate successfully, and in response, evaluating the second binding statement.
- 40. (Original) The computer-readable medium of claim 39, further comprising computer-executable instructions for evaluating the second binding statement and in response to determining that the second binding statement evaluates successfully, executing the second binding statement.